

WHAT IS CLAIMED IS:

1. A method for making a carbon fabric comprising the steps of:

(a) preparing a raw fabric obtained from raw fibers by weaving; and

5 (b) carbonizing said raw fabric into a carbon fabric;

wherein the raw fibers for the raw fabric are oxidized fibers of polypropylene having a carbon content of 50 wt% at least, an oxygen content of 4 wt% at least, and a limiting oxygen index (LOI) of 35% at least.

10 2. The method as claimed in claim 1, wherein the carbon content of said raw fibers is over 55wt%.

3. The method as claimed in claim 1, wherein the oxygen content of said raw fabrics is over 8wt%.

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4. The method as claimed in claim 1, wherein the oxygen limiting index of said raw fibers is over 50%.

5. The method as claimed in claim 1, wherein said step (b) carbonizing said
20 raw fabric into a carbon fabric is performed at 700-2500°C.

6. The method as claimed in claim 5, wherein said step (b) is performed at 900-2500°C.

25 7. The method as claimed in claim 1, wherein said step (b) carbonizing said

raw fabric into a carbon fabric is performed in at least one high temperature oven under the presence of an inert gas.

8. The method as claimed in claim 7, wherein said step (b) is performed in a plurality of said high temperature ovens connected in series.

9. The method as claimed in claim 7, wherein said inert gas is helium.

10. The method as claimed in claim 1, wherein said step (b) carbonizing said raw fabric into a carbon fabric is performed at a predetermined constant temperature.

11. The method as claimed in claim 1, wherein said step (b) carbonizing said raw fabric into a carbon fabric is performed continuously at different temperatures.

12. The method as claimed in claim 1, wherein said step (b) carbonizing said raw fabric into a carbon fabric is performed interruptedly at different temperatures.

13. The method as claimed in claim 1, wherein said step (b) carbonizing said raw fabric into a carbon fabric is performed for 2-240 minutes.

14. The method as claimed in claim 13, wherein said step (b) is performed for 10-100 minutes.

15. The method as claimed in claim 1, wherein a shrinkage of said raw fabric during said step (b) is below 30%.

16. A carbon fabric formed of oxidized fibers of polypropylene, having a density over 1.68 g/ml and a magnetic wave shielding efficiency over 30dB subject to a magnetic wave having a frequency ranging from 300 MHz to 2.45 GHz.

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17. The carbon fabric as claimed in claim 16, wherein said oxidized fibers of polypropylene have a carbon content of 50wt% at least, an oxygen content of 4wt% at least, and a limiting oxygen index of 35% at least.

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18. The carbon fabric as claimed in claim 16, having a carbon content over 70 wt%.